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THE DISTRIBUTION OF RECENT TERRESTRIAL MOLLUSCS IN PIEMONTE AND VALLE D'AOSTA

Abstract. — Results from the published works on the malacofauna of Piemonte and Valle d'Aosta have been abstracted to produce a critical species list by provinces. The areas where further work is necessary are made apparent, and notes on taxonomic problems are provided.

Riassunto. — *La distribuzione dei molluschi terrestri viventi in Piemonte e Valle d'Aosta.*

Vengono riassunti i risultati dei lavori pubblicati sulla malacofauna del Piemonte e della Valle d'Aosta e si riporta il catalogo critico delle specie, secondo le provincie. Sono segnalate le aree dove è necessario un ulteriore studio e si forniscono note su problemi tassonomici.

Introduction.

The most recent general survey of the terrestrial mollusc fauna of Italy is to be found in the work of ALZONA (1971). This is an invaluable reference on matters of taxonomy and nomenclature and includes a very rich bibliography up to 1965. Precise details of distribution are not given, though a general indication is included.

The problems of reporting the distribution of the malacofauna of the entire country have never been tackled in a uniform manner, though there are numerous research papers on particular areas.

The purpose of the present work is to summarise the published information on the terrestrial malacofauna of Piemonte and Valle d'Aosta, giving the known distribution by provinces. The province is chosen as the smallest convenient geographical area with relatively stable boundaries by analogy with the vicecounty, which was used for many years to record the distribution of non-marine Mollusca in Britain (ELLIS, 1951;

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KERNEY, 1966). The sources examined include all the faunal studies on the region listed by Alzona. It has not been possible to examine all the taxonomic, rather than faunal, studies which might include records from the region.

The following works were examined and are listed in chronological order. The first regional fauna was that of STROBEL (1853) who studied the eastern part of Piemonte between the rivers Toce and Trebbia. STABILE (1864) compiled the first list for the entire region. LESSONA (1880a) produced a further list for the region, and studied the *Trichia hispida* complex (LESSONA, 1880 b) and the genus *Arion* in Piemonte (LESSONA, 1881). BOETTGER (1883) gave records from Piemonte, and SIMON and BOETTGER (1884) gave records from the Alpi Cozie. POLLONERA (1885) updated the list of terrestrial molluscs for the region, and later made further additions (POLLONERA, 1886 a and 1889). He also revised the vitrinids (POLLONERA, 1884) and the clausiliid genus *Charpentieria* (POLLONERA, 1885 b), and made general anatomical studies (POLLONERA, 1886 b).

For the Valle d'Aosta, PEGORARI (1881) reported many local records, and his work was summarised, with a few additions, by PAVESI (1904). The National Park of Gran Paradiso was studied by GAMBETTA (1928-32) and by TORTONESE and ROSSI (1954).

For the province of Cuneo, BRIAN (1919) recorded molluscs from a cave near Garessio.

For the province of Novara, BISHOP (1976) presented the results of recent systematic field collecting.

For the province of Torino, POLLONERA (1888) recorded *Testacella* from Villa Doyen.

For the province of Vercelli, VILLA (1869) gave a few casual records. CAPRA (1932) recorded molluscs from a cave near Sostegno and summarised the fauna of the area around Biella (CAPRA, 1953). FOCARILE and ORLANDI (1962) recorded molluscs from a cave in Val Sesia.

The Species List.

Each individual species record in the sources examined was noted, and the list of species distribution in the seven provinces of Piemonte and Valle d'Aosta produced. Nomenclature, where possible, follows KERNEY & CAMERON (1979). Problems of synonymy could largely be dealt with by reference to the work of ALZONA (1971). Old determinations are open to doubt, and I have been extremely cautious in accepting those which seem unlikely in the light of my own recent field work. If errors

have been introduced, they may be eliminated by future work. It is unreasonable to reject all old records on the grounds that there is no material for verification, and it is hoped that publication of this list will stimulate further interest in the fauna. Other difficulties are indicated in a later section. Records from river alluvium or flood debris are not included because of uncertainty about precise provenance, and the possibility that sub-fossil material might be involved.

The individual records amount to almost 2000 entries, and a listing is available from the author on request. The alpine provinces (Alpi Marittime, Alpi Cozie - Cuneo; Alpi Graie - Torino; Alpi Pennine - Valle d'Aosta, Vercelli; Alpi Lepontine - Novara) have the richer fauna and are well recorded, though further work could be carried out to advantage in the provinces of Cuneo and Vercelli. The provinces of Alessandria and Asti are less rich, but are also poorly recorded, and in need of further study. The author would be grateful to receive additional records, preferably with specimens for verification, which should be sent to « Museo Civico di Storia Naturale, Milano, Corso Venezia 55 ».

Abbreviations:

al = Province of Alessandria; ao = P. of Aosta; at = P. of Asti; cn = P. of Cuneo; no = P. of Novara; to = P. of Torino; vc = P. of Vercelli.

	al	ao	at	cn	no	to	vc
Cochlostomatidae							
<i>Cochlostoma septemspirale</i> (Razoum.)				cn			
<i>C. subalpinum</i> (Pini)				cn			
Pomatiasidae							
<i>Pomatias elegans</i> (Müller)	al		at				
Aciculidae							
<i>Acicula lineata</i> (Draparnaud) agg.					no		
<i>Renea bayoni</i> (Pollonera)					no		
<i>R. gentilei</i> (Pollonera)				cn			
Ellobiidae							
<i>Carychium minimum</i> Müller agg.		ao			no	to	vc
<i>C. minimum</i> seg.					no	to	vc
<i>C. tridentum</i> (Risso)					no	to	
Cochlicopidae							
<i>Cochlicopa lubrica</i> (Müller) agg.	al	ao		cn	no	to	vc
<i>C. lubrica</i> seg.					no		
<i>C. lubricella</i> (Porro)					no	to	
Chondrinidae							
<i>Abida secale</i> (Draparnaud)		ao				to	

	al	ao	at	cn	no	to	vc
<i>Chondrina avenacea</i> (Brugiere)		ao		cn		to	
<i>Granaria frumentum</i> (Draparnaud)	al						
<i>G. stabilei</i> (Martens)				cn		to	
<i>G. variabilis</i> (Draparnaud)				cn		to	
<i>Granopupa granum</i> (Draparnaud)	al						
<i>Solatopupa similis</i> (Brugiere)						to	
Enidae							
<i>Chondrula tridens</i> (Müller)	al	ao	at	cn		to	
<i>Ena montana</i> (Draparnaud)		ao			no		vc
<i>E. obscura</i> (Müller)	al	ao		cn	no	to	vc
<i>Jaminia quadridens</i> (Müller)	al	ao	at	cn	no	to	
<i>Zebrina detrita</i> (Müller)		ao		cn		to	
Orculidae							
<i>Orcula doliolum</i> (Brugiere)		ao					
<i>O. dolium</i> (Draparnaud)		ao					
<i>Pagodulina pagodula</i> (Desmoulins)						to	
Pupillidae							
<i>Argna ferrari</i> (Porro)				cn	no	to	vc
<i>Lauria cylindracea</i> (Da Costa)	al	ao				to	vc
<i>L. sempronii</i> (Charpentier)		ao			no	to	vc
<i>Pupilla alpicola</i> (Charpentier)						to	
<i>P. muscorum</i> (Linnaeus)	al	ao			no	to	
<i>P. sterri</i> (Voith)						to	
<i>P. triplicata</i> (Studer)		ao			no	to	
Pyramidulidae							
<i>Pyramidula rupestris</i> (Draparnaud)		ao			no	to	
Valloniidae							
<i>Acanthinula aculeata</i> (Müller)					no		vc
<i>Vallonia costata</i> (Müller)		ao			no	to	
<i>V. pulchella</i> (Müller) agg.	al			cn	no	to	vc
<i>V. excentrica</i> Sterki					no		
Vertiginidae							
<i>Columella columella</i> (Martens)		ao			no		
<i>C. edentula</i> (Draparnaud)					no	to	
<i>Truncatellina callieratis</i> (Scacchi)					no		
<i>T. cylindracea</i> (Ferussac)	al				no		vc
<i>Vertigo antivertigo</i> (Draparnaud)		ao		cn	no		vc
<i>V. moulinsiana</i> (Dupuy)	al	ao			no		
<i>V. pusilla</i> (Müller)		ao			no		vc
<i>V. pygmaea</i> (Draparnaud)		ao		cn	no	to	vc
<i>V. substriata</i> (Jeffreys)					no		
Succineidae							
<i>Oxyloma pfeifferi</i> (Rossmassler)		ao	at		no	to	vc

	al	ao	at	cn	no	to	vc
<i>Succinea oblonga</i> Draparnaud		ao		cn		to	
<i>S. putris</i> (Linnaeus)					no	to	
Arionidae							
<i>Arion circumscriptus</i> Johnston agg.		ao		cn	no	to	
<i>A. circumscriptus</i> seg.					no		
<i>A. silvaticus</i> Lohmander					no		
<i>A. hortensis</i> (Ferussac) agg.				cn		to	vc
<i>A. rufus</i> (Linnaeus)					no		
<i>A. subfuscus</i> (Draparnaud)		ao		cn	no	to	vc
<i>Ariunculus speziai</i> Lessona					no		
<i>A. mortilleti</i> Lessona		ao					vc
<i>A. cameranoi</i> Lessona							vc
Discidae							
<i>Discus rotundatus</i> (Müller)		ao		cn	no	to	vc
<i>D. ruderatus</i> (Ferussac)		ao			no	to	vc
Punctidae							
<i>Punctum pygmaeum</i> (Draparnaud)		ao			no	to	vc
Euconulidae							
<i>Euconulus fulvus</i> (Müller)	al	ao		cn	no	to	vc
Limacidae							
<i>Deroceras agreste</i> (Linnaeus) agg.	al	ao		cn	no	to	vc
<i>D. agreste</i> seg.		ao			no		
<i>D. reticulatum</i> (Müller)		ao			no		
<i>D. laeve</i> (Müller)		ao		cn	no	to	vc
<i>D. panormitanum</i> (Less. & Poll.) agg.					no		
<i>Limax cinereoniger</i> Wolf agg.		ao		cn	no	to	vc
<i>L. flavus</i> Linnaeus						to	
<i>L. marginatus</i> Müller		ao		cn	no	to	vc
<i>L. maximus</i> Linnaeus		ao		cn	no	to	vc
<i>L. tenellus</i> Müller		ao			no	to	vc
Milacidae							
<i>Milax rusticus</i> (Millet)		ao		cn	no	to	vc
Vitrinidae							
<i>Eucobresia diaphana</i> (Draparnaud)		ao			no	to	vc
<i>E. nivalis</i> (Dumont & Mortillet)		ao			no	to	
<i>E. pegorarii</i> (Pollonera)		ao					
<i>Phenacolimax annularis</i> (Studer)		ao				to	
<i>P. glacialis</i> (Forbes)		ao			no	to	
<i>P. major</i> (Ferussac)				cn	no	to	vc
<i>Semilimax kotulae</i> (Westerlund)		ao					
<i>Vitrina pellucida</i> (Müller)	al	ao	at		no	to	
<i>Vitrinobrachium breve</i> (Ferussac)							vc

	al	ao	at	cn	no	to	vc
Zonitidae							
<i>Aegopinella minor</i> (Stabile)					no	to	vc
<i>A. pura</i> (Alder)		ao			no	to	
<i>Nesovitrea hammonis</i> (Strom)		ao			no		
<i>N. petronella</i> (Charpentier)		ao			no	to	vc
<i>Oxychilus draparnaudi</i> (Beck)				cn	no	to	vc
<i>O. glaber</i> (Rossmassler)		ao		cn	no	to	vc
<i>O. hydatinus</i> (Rossmassler)						to	
<i>O. mortilleti</i> (L. Pfeiffer)					no	to	vc
<i>O. obscuratus</i> (Villa & Villa)	al			cn			
<i>O. polygyrus</i> (Pollonera)							vc
<i>Retinella hiulca</i> (Jan)					no		
<i>R. olivetorum</i> (Gmelin)	al			cn			
<i>Vitrea etrusca</i> (Paulucci)				cn		to	
<i>V. subrimata</i> (Reinhardt)		ao		cn	no		
<i>Zonitoides nitidus</i> (Müller)	al	ao		cn	no	to	vc
Ferussaciidae							
<i>Ceciliodes acicula</i> (Müller)	al	ao				to	
Testacellidae							
<i>Testacella haliotide</i> Draparnaud						to	
Clausiliidae							
<i>Balea perversa</i> (Linnaeus)		ao			no	to	vc
<i>Charpentieria diodon</i> (Ferussac)					no		
<i>C. thomasiana</i> (Kuster)					no	to	vc
<i>Clausilia bidentata</i> (Strom)		ao				to	vc
<i>C. cruciata</i> Studer					no		vc
<i>C. parvula</i> Studer		ao					
<i>Cochlodina laminata</i> (Montagu) agg.		ao		cn	no	to	
<i>C. fimbriata</i> (Rossmassler)					no		
<i>Delima itala</i> (Martens)	al			cn	no		
<i>Laciniaria plicata</i> (Draparnaud)					no		vc
<i>Macrogastera lineolata</i> (Held)		ao		cn	no	to	vc
<i>M. plicatula</i> (Draparnaud)		ao		cn	no	to	vc
<i>M. ventricosa</i> (Draparnaud)		ao					
Bradybaenidae							
<i>Bradybaena fruticum</i> (Müller)	al			cn		to	
Helicidae							
<i>Arianta arbustorum</i> (Linnaeus)		ao		cn	no	to	vc
<i>Chilostoma alpinum</i> (Ferussac)						to	
<i>C. glaciale</i> (Ferussac)				cn		to	
<i>C. zonatum</i> (Studer)		ao		cn	no	to	vc
<i>C. cingulata</i> (Studer)				cn			
<i>Helicigona lapicida</i> (Linnaeus)		ao				to	
<i>Cepaea nemoralis</i> (Linnaeus)	al	ao	at	cn	no	to	vc

	al	ao	at	cn	no	to	vc
<i>C. sylvatica</i> (Draparnaud)		ao		cn			
<i>Helix aspersa</i> (Müller)		ao				to	
<i>H. pomatia</i> (Linnaeus)		ao	at	cn	no	to	vc
<i>Candidula unifasciata</i> (Poiret)	al	ao		cn		to	
<i>Cerņuella neglecta</i> (Draparnaud)	al						
<i>C. subprofuga</i> (Stabile)	al					to	
<i>Helicella conspurcata</i> (Draparnaud)	al					to	
<i>Xerosecta cespitum</i> (Draparnaud)	al			cn			
<i>Monacha cantiana</i> (Montagu)	al			cn	no	to	
<i>M. cartusiana</i> (Müller)	al		at		no	to	vc
<i>Drepanostoma cameranoi</i> (Lessona)		ao					vc
<i>D. nautiliforme</i> (Porro)					no	to	vc
<i>Helicodonta angigyra</i> (Rossmassler)						to	
<i>H. obvoluta</i> (Müller)		ao		cn	no	to	vc
<i>Ciliella ciliata</i> (Studer)					no	to	
<i>Euomphalia strigella</i> (Draparnaud)	al	ao		cn	no	to	vc
<i>Hygromia cinctella</i> (Draparnaud)	al				no		
<i>Isognomostoma holosericum</i> (Held)		ao			no	to	
<i>Monachoides incarnata</i> (Müller)		ao			no	to	vc
<i>Trichia hispida</i> (Linnaeus) agg.	al	ao	at	cn		to	
<i>T. plebeia</i> (Draparnaud)				cn		to	

Notes on certain Species.

Cochlostoma subalpinum (Pini). This is possibly only a variety of *C. patulum* (Draparnaud).

Acicula lineata (Draparnaud) agg. BOETERS and GITTENBERGER (1977) have pointed out the presence of two species of *Acicula* s.s. in northern Italy. The larger should be called *A. lineolata* (Pini) and the smaller *A. lineata* (Draparnaud). The material from Piemonte has not been critically studied.

Pleuracme Kobelt is treated as a subgenus of *Renea* Nevill.

Granaria blanci (Pollonera) is included in *G. stabilei* following GITTENBERGER (1973).

Granaria illyrica (Rossmassler) is recognised as distinct from *G. frumentum* by some authors, and the records from Piemonte may refer to the former taxon.

Pagodulina pagodula (Des Moulins) is recorded from Ceres (TO) by STABILE (1864), but this record may refer to *P. subdola* (Gredler).

Catinella arenaria (Bouchard-Chantreaux). Records of this species from Piemonte refer to *Succinea oblonga* or juvenile succineids.

Arion hortensis (Ferussac) agg. According to DAVIES (1977), three species have been confused under this name, but the problems of nomenclature are not yet resolved. I have included records of *A. alpinus* (Pollonera) in the aggregate species records.

Ariunculus mortilleti Lessona, *A. spezziai* Lessona, and *A. cameranoi* Lessona may be varieties of a single species.

Deroceras panormitanum (Lessona and Pollonera) agg. BISHOP (1976) recorded a member of this species complex from Piemonte under the name *D. pollonerai* (Simroth). *Agriolimax scharffi* Simroth, (1910) recorded from Bussoleno (TO) is probably the same species, but the type specimen is apparently lost, so this cannot be confirmed. GIUSTI (1976) has discussed the anatomy of the group.

Deroceras agreste (Linnaeus) is recorded by Gambetta (1932) as *Agriolimax paradisiacus* n. sp., characterised by the presence of « un'unica appendice flagelliforme, compatta, liscia, a mo' di cornettino ». The *A. agrestis* of Gambetta is *D. reticulatum* (Müller).

Limax cinereoniger Wolf agg. The taxonomy of this species complex in Piemonte is utterly confused at present, and many forms have been named.

Milax budapestensis Hazay. Although ALZONA (1971) quotes « Appennino ligure-piemontese », I can find no confirmation of this species in Piemonte. SIMROTH (1910) quotes Busalla (GE).

Phenacolimax stabilei (Lessona). I have included records of this taxon as a variety of *P. major*.

Aegopinella nitidula (Draparnaud) and *A. nitens* (Gmelin). The presence of these species in Piemonte has not been confirmed by dissection.

Oxychilus cellarius (Müller). Records of this species from Piemonte probably refer to *O. draparnaudi* or *O. mortilleti*.

Oxychilus clarus (Held). The record of this species from Gassino (TO) (POLLONERA, 1886) is regarded as an error.

Oxychilus obscuratus (Villa & Villa). As GIUSTI and MAZZINI (1970) state « In Italia l'assetto sistematico del genere *Oxychilus* è . . . ancor oggi in terribili condizioni ». The records of this species from the provinces of Alessandria and Cuneo therefore need further investigation.

Oxychilus polygyrus (Pollonera) may be only a variety of *O. mortilleti*.

Vitrea pinii (Westerlund). The identity of this species is uncertain, there being no material in the Westerlund Collection.

Vitrea pseudohydatica (Bourguignat) is a synonym of *Oxychilus hydaticus* (Rossmassler).

Vitrea etrusca (Paulucci) is a poorly known species. PINTER (1972) has suggested that it may be identical with *V. pygmaea* (O. Boettger).

Vitrea diaphana (Studer). Records of this species from Piemonte probably refer to *V. subrimata*. PINTER (1972) has shown that *V. craverii* (Pollonera) and *V. bazzettae* (Pollonera) are synonyms of *V. subrimata*.

Charpentieria thomasiana (Kuster). The many taxa of *Charpentieria* listed by ALZONA (1971) are probably varieties of this species.

Cochlodina laminata (Montagu). The presence of this species in Piemonte has not been confirmed by dissection, and the records may refer to *C. fimbriata*.

Cermuella profuga (A. Schmidt). Records from Piemonte under this name are listed as *C. subprofuga* (Stabile).

Trichia sericea (Draparnaud). This name is preoccupied by *Helix sericea* Müller, and the species should be called *T. plebeia* (Draparnaud).

Monacha (Urticicola) glabella (Draparnaud). The records from « Alpi del Piemonte » referred to this species by ALZONA (1971) are based on literature records of *Helix glabella* Studer, a synonym of *Trichia hispida*.

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REFERENCES

- ALZONA C., 1971 - Malacofauna Italica - *Atti Soc. ital. Sci. nat. Mus. civ. Stor. nat. Milano*, 111, 1-433.
- BISHOP M. J., 1976 - I molluschi terrestri della provincia di Novara - *Atti Soc. ital. Sci. nat. Museo civ. Stor. nat. Milano*, 117, 265-299, pl. 14.
- BOETERS H. D. & GITTENBERGER E., 1977 - *Acicula (A.) lineata* (Draparnaud) and *A. (A.) lineolata* (Pini) (Prosobranchia, Aciculidae, 3) - *Zool. Med.*, 52 (19), 217-222, pl. 1.
- BOETTGER O., 1883 - Malakozoologische und Palaeontologische Mitteilungen - *Ber. Tat. offenb. Vereins Naturk.*, 22-23, 157-224, 1 pl.
- BRIAN A., 1919 - Esplorazione di alcune caverne nell'alta Val Tanaro presso Garesio - *Mondo sotterraneo*, Firenze, 14, 3-9.
- CAPRA F., 1932 - La grotta di Bercovei o Bargovei presso Sostegno (Biella) - *Le Grotte d'Italia*, 6, 46.
- CAPRA F., 1953 - La fauna del Biellese. Notiziario Economico. *Boll. Camera Commercio Industria Agric. Vercelli*, (12), 3-4.
- DAVIES S. M., 1977 - The *Arion hortensis* complex, with notes on *A. intermedius* Normand (Pulmonata: Arionidae) - *J. Conchol.*, 29, 173-188.
- ELLIS A. E., 1951 - Census of the distribution of British non-marine Mollusca - *J. Conchol.*, 23, 171-244.
- FOCARILE A. & ORLANDI R., 1962 - Due nuove cavità della bassa Val Sesia (Piemonte orientale) - *Rass. speleol. it.*, Como, 14, 32-38.

- GAMBETTA L., 1928-32 - Molluschi del Parco Nazionale del Gran Paradiso - In: E. FESTA, Il Parco Nazionale del Gran Paradiso, Torino.
- GITTENBERGER E., 1973 - Beiträge zur Kenntnis der Pupillacea III. Chondrininae - *Zool. Verh. Rijksmus. Nat. Hist. Leiden*, 127, 1-267, pl. 1-7.
- GIUSTI F., 1976 - Notulae Malacologicae XXIII. I Molluschi terrestri, salmastri e di acqua dolce dell'Elba, Giannutri e scogli minori dell'Arcipelago Toscano - *Lav. Soc. ital. Biogeogr. (N.S.)*, 5, 99-355, pl. 1-19.
- GIUSTI F. & MAZZINI M., 1970 - Notulae Malacologicae XIV. I molluschi delle Alpi Apuane - *Lav. Soc. ital. Biogeogr. (N.S.)*, 1, 202-335, pl. 1-9.
- KERNEY M. P., 1966 - Census of the distribution of British non-marine Mollusca. Supplement to the 7th edition - *J. Conchol.*, 25, Suppl., 1-8.
- KERNEY M. P. & CAMERON R. A. D., 1979 - A field guide to the land snails of Britain and north-west Europe - *Collins*, London.
- LESSONA M. 1880 a - Molluschi viventi del Piemonte - *Mem. Acc. Lincei*, 277, Ser. III, 7, 317-380, 4 pl.
- LESSONA M., 1880 b - Sulla *Helix hispida* in Piemonte - *Atti Acc. Sc. Torino*, 15, 291-297, 2 pl.
- LESSONA M., 1881 - Sugli *Arion* del Piemonte - *Atti Acc. Sc. Torino*, 16, 185-197, 1 pl.
- PAVESI P., 1904 - Esquisse d'une faune valdôtaine - *Atti Soc. ital. Sci. nat.*, 43, 191-260.
- PEGORARI L., 1881 - Contribuzione alla fauna malacologica della Valle della Dora Baltea - *Bull. Soc. ven. trent. Sc. nat.*, Padova, 2, 148-185.
- PINTER L. 1972 - Die Gattung *Vitrea* Fitzinger, 1833 in den Balkanländern (Gastropoda: Zonitidae) - *Ann. Zool.*, Warszawa, 29 (8), 209-315.
- POLLONERA C., 1884 - Note di malacologia piemontese. Monografia del genere *Vitrina* - *Atti Acc. Sc. Torino*, 19, 1-22, 1 pl.
- POLLONERA C., 1885 - Elenco dei molluschi terrestri viventi in Piemonte - *Atti Accad. Sc. Torino*, 19, 20, 675-703.
- POLLONERA C., 1886 a - Aggiunte alla malacologia terrestre del Piemonte - *Boll. Mus. Zool. Anat. comp. Torino*, 1 (17), 1-4.
- POLLONERA C., 1886 b - Appunti anatomici in appoggio ad una classificazione dei molluschi geofili del Piemonte - *Bull. Soc. mal. it.*, 12, 102-122, pl. 4.
- POLLONERA C., 1888 - Appunti di malacologia. I. Di alcune Testacelle raccolte presso Torino - *Boll. Mus. Zool. Anat. comp. Torino*, 3 (43), 1-10, pl. 2.
- POLLONERA C., 1889 - Nuove aggiunte e correzioni alla malacologia terrestre del Piemonte - *Boll. Mus. Zool. Anat. comp. Torino*, 4 (58), 1-7.
- SIMON H. & BOETTGER O., 1884 - Naturwissenschaftliche Streifzüge in den Cotti-schen Alpen - *Nachr. mal. Ges.*, 16, 33-49.
- SIMROTH H., 1910 - Nacktschneckenstudien in den Südalpen. Abhandl. - *Senckenberg. Naturf. Ges.*, 32, 25-348, 14 fig., pl. 23-24.
- STABILE G., 1864 - Mollusques terrestres vivants du Piemont. *Atti Soc. ital. Sci. nat.*, Milano, 7, 1-141, 2 pl.
- STROBEL P., 1853 - Sui molluschi viventi del lembo orientale del Piemonte, dalla Toce alla Trebbia - *Giorn. Malac.*, Pavia, 1, 49-57, 65-72, 81-88, 97-110.
- TORTONESE E. & ROSSI L., 1954 - Contributo allo studio biologico del Parco Nazionale del Gran Paradiso (Alpi Piemontesi). Gran Piano di Noasca e dintorni - *Atti Soc. it. Sci. nat.*, Milano, 93, 437-488.
- VILLA A., 1869 - La riunione straordinaria del Club Alpino in Varallo - *Giorn. Ing. Archit. civili industriali*, anno 18, 3 pp.